| | Application No. | Applicant(s) |
|---|---|---|
| **Notice of Allowability** | 10/763,333 | JUNG, SUNG-HAN |
| | Examiner | Art Unit | |
| | Anne M. Hines | 2879 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Amendment filed 7/28/06*.

2. ☒ The allowed claim(s) is/are *2-12*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All    b) ☐ Some*    c) ☐ None    of the:

        1. ☒ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

## DETAILED ACTION

### *Response to Amendment*

The amendment filed on July 28, 2006, has been entered and acknowledged by the Examiner.

Claims 2-12 are pending in the instant application.

### *Allowable Subject Matter*

Claims 2-12 are allowed.

Regarding independent claim 2, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 2, and specifically comprising the limitation wherein diagonal size U of the effective surface is 570mm – 700mm, and a following condition is satisfied:

$-1.7168*Ln(U/1mm)+11.627 \leq (Rh*Rv*Ro/U)*Tc \leq -2.0131*Ln(U/1mm)+13.645$, wherein a value obtained by dividing an inner curvature radius Rx of the effective surface of the panel following a long axis (X) by a distance Lx of the effective surface of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner curvature radius Ry of the effective surface of the panel following a short axis (Y) by a distance Ly of the effective surface of the panel following a 1.767*short axis is Rv, a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface of the panel following a 1.767*diagonal axis is Ro, and the thickness of the center point of the panel is Tc; wherein a following condition is satisfied: $10mm \leq Tc \leq 12.4mm$.

Regarding independent claim 3, the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 3, and specifically comprising the limitation wherein diagonal size U of the effective surface is 570mm – 700mm, and a following condition is satisfied:

$-7168*Ln(U/1mm)+11.627 \leq (Rh*Rv*Ro/U)*Tc \leq -2.0131*Ln(U/1mm)+13.645$, wherein a value obtained by dividing an inner curvature radius Rx of the effective surface of the panel following a long axis (X) by a distance Lx of the effective surface of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner curvature radius Ry of the effective surface of the panel following a short axis (Y) by a distance Ly of the effective surface of the panel following a 1.767*short axis is Rv, a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface of the panel following a 1.767*diagonal axis is Ro, and the thickness of the center point of the panel is Tc; wherein a following condition is satisfied: $0.0875*Ln(U/1mm)-0.4192 \leq OAH/U \leq 0.0981*Ln(U/1mm)-0.4753$, and a tube axis directional distance from the center of the outer surface of the panel to a seal edge line is OAH.

Regarding independent claim 4 the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 4, and specifically comprising the limitation wherein diagonal size U of the effective surface is 650mm – 760mm, and a following condition is satisfied:

-2.13191mm*Ln(U/1mm)+14.589≤(Rh*Rv*Ro/U)*Tc≤-2.5462*Ln(U/1mm)+17.414,

wherein a value obtained by dividing an inner curvature radius Rx of the effective

surface of the panel following a long axis (X) by a distance Lx of the effective surface

of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner

curvature radius Ry of the effective surface of the panel following a short axis (Y) by

a distance Ly of the effective surface of the panel following a 1.767*short axis is Rv,

a value obtained by dividing an inner curvature radius of the effective surface of the

panel following a diagonal axis (D) by a distance Ld of the effective surface of the

panel following a 1.767*diagonal axis is Ro, and the thickness of the center point of

the panel is Tc.

Regarding claims 5-6, claims 5-6 are allowable for the reasons given in claim 4

because of their dependency status from claim 4.


Regarding independent claim 7 the references of the Prior Art of record fail to

teach or suggest the combination of the limitations as set forth in claim 7, and

specifically comprising the limitation wherein diagonal size U of the effective surface

is 400mm – 500mm, and a following condition is satisfied:

-0.8629*Ln(U/1mm)mm+5.6754≤(Rh*Rv*Ro/U)*Tc≤-1.0547*Ln(U/1mm)+6.9366,

wherein a value obtained by dividing an inner curvature radius Rx of the effective

surface of the panel following a long axis (X) by a distance Lx of the effective surface

of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner

curvature radius Ry of the effective surface of the panel following a short axis (Y) by

a distance Ly of the effective surface of the panel following a 1.767*short axis is Rv,

a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface of the panel following a 1.767*diagonal axis is Ro, and the thickness of the center point of the panel is Tc.

Regarding claims 8-9, claims 8-9 are allowable for the reasons given in claim 7 because of their dependency status from claim 7.

Regarding independent claim 10 the references of the Prior Art of record fail to teach or suggest the combination of the limitations as set forth in claim 10, and specifically comprising the limitation wherein diagonal size U of the effective surface is 650mm – 700mm, and a following condition is satisfied:

$-17.746*Ln(U/1mm)mm+116.49 \leq (Rh*Rv*Ro/U)*Tc \leq -20.322*Ln(U/1mm)+133.45$,

wherein a value obtained by dividing an inner curvature radius Rx of the effective surface of the panel following a long axis (X) by a distance Lx of the effective surface of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner curvature radius Ry of the effective surface of the panel following a short axis (Y) by a distance Ly of the effective surface of the panel following a 1.767*short axis is Rv, a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface of the panel following a 1.767*diagonal axis is Ro, and the thickness of the center point of the panel is Tc.

Regarding claims 11-12, claims 11-12 are allowable for the reasons given in claim 10 because of their dependency status from claim 10.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Hines whose telephone number is (571) 272-2285. The examiner can normally be reached on Monday through Friday from 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER